



GERT SIBANDE DISTRICT MUNICIPALITY

WATER QUALITY LABORATORY

Enquiries : Victoria Tshabalala
 E-mail : Laboratoryservices@gsibande.gov.za
 Int. Ref : LDP0011/2025
 Ext. Ref : 2025/11/11

5 December 2025

Attention: Mr. F Shabangu

Dipaleseng Local Municipality
 Private Bag X1005
 Balfour

INTERNAL REPORT COMMENT: LDP0011/2025.

The following determinand tested on Potable Water Sample(s) for the above mentioned report did not meet the acceptable Limits as per the Drinking Water Standard, SANS 241-1:2015.

- WQL25/03473 : Balfour Disaster Mangement Center: Turbidity & Total Coliform
- WQL25/03474 : Balfour Stand 116 New Stand : *E.coli*
- WQL25/03475 : Balfour Fortuna Water Treatment Plant Final : Total Coliform & *E.coli*
- WQL25/03477 : Balfour Excell Garage : Total Coliform
- WQL25/03478 : Siyethemba Stand 6311 : Total Coliform & *E.coli*
- WQL25/03479 : Siyethemba Thusong Center : Total Coliform & *E.coli*
- WQL25/03481 : Siyathemba Reservoir : Total Coliform
- WQL25/03482 : Greyling Total Garage : Total Coliform



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WQL25/03483 : Greyling Reservoir : Turbidity, Total Coliform & *E.coli*

WQL25/03484 : Nthorwana Municipal Office : Total Coliform & *E.coli*

WQL25/03485 : Nthorwana Stand 731 : Total Coliform & *E.coli*

WQL25/03486 : Nthorwana Reservoir : Total Coliform & *E.coli*

Chemistry testing marked with a Hashtag (#) has been sub-contracted to an external Laboratory due to technical challenges experienced internally.

Manager: Chemistry

Manager: Microbiology

Yours sincerely,

VM. Tshabalala

Head of Scientific Service

ANALYTICAL TEST REPORT



Certificate No: LDP0011/2025

Enquiries: Water Quality Laboratory
Email: laboratoryservices@gsibande.gov.za
Tel. No.: 017 801 7143/44/49/50/97
Web: www.gsibande.gov.za

GERT SIBANDE DISTRICT MUNICIPALITY
WATER QUALITY LABORATORY
Cnr N17 Bethal and Nelspan Road
Cassim Park
Ermelo, 2350

Customer Name: Dipaleseng Local Municipality
Customer Code: LDP
Customer Address: Private bag X1005
Balfour 2410
Attention: Mr. Freddy Shabangu
Tel. No.: 017 773 0055 / 0168
Email: shabanguf@dipaleseng.com

No. Of Samples: 19
Sampling Date: 11-Nov-25
Date Received: 11-Nov-25

Analysis Start Date: 11-Nov-25
Analysis End Date: 19-Nov-25

Result Authorized by:

TS: Partial Accreditation Scope

TS: Full Accreditation Scope

TS: Full Accreditation Scope

Name

Name S. Mkhwanazi

Name M. N. Nkosi

Sign:

Sign: [Signature]

Sign: [Signature]

Technical Signatory: Chemistry

Technical Signatory: Chemistry

Technical Signatory: Microbiology

Date:

Date: 05/12/2025

Date: 05/12/2025

NB: The Authorization by section technical signatory will be left blank if the report does not contain section results.

Disclaimer:

This report may not be reproduced in full, unless approval is given by the Head of Scientific Services.

Unless otherwise indicated, results are generated at the laboratory permanent premises indicated on the address above.

The dollar symbol \$ will be used to indicate testing done outside the laboratory permanent facilities.

Note1: Sampling is outside the laboratory scope of accreditation. Samples are tested as received from customers/ referral service provider

Note1-1: Contracted customers sampling is referred by the laboratory and is done as per method/procedure WQL-QS-QP7.3

Note1-2: Sampling procedure/method is not applicable for samples delivered by customers at the laboratory.

Note2: Results from customer/subcontracted laboratory are not captured on internal report.

#: Subcontracted tests.

NR: Test not requested

RTF: Results to follow

< xx : Result below the detection limit

Red bold : SANS 241:2015 drinking water standards non compliance

✖ : Testing Cancelled

> xx : Result above the highest limit

Opinions and interpretations expressed herein are outside the scope of SANAS accreditation

Statements of conformity to specifications are made in this report without taking measurement uncertainty into account except when requested by the customer.

Uncertainty of measurement for the test result shall be provided upon the customer's request.

Chemistry samples will be discarded two weeks after this report has been sent.

Microbiology samples are discarded after analysis, they cannot be retained. The customer will have to submit another sample should re-testing be required.

The information contained in this report is privileged and confidential and intended only for the use of person to which it is addressed. If the reader of this message is not the intended recipient, you are hereby notified that any retention, dissemination, distribution or copying or the taking of action in reliance to the information on this report is strictly prohibited.

TS: Partial accreditation Scope : Chemistry Methods (M01-05 & M07 & M12)

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Ermelo, 2350

Customer Name: Dipaleseng Local Municipality				No. Of Samples: 19				
Customer Code: LDP				Sampling Date: 11-Nov-25				
Customer Address: Private bag X1005				Date Received: 11-Nov-25				
Balfour 2410								
Attention: Mr. Freddy Shabangu				Analysis Start Date: 11-Nov-25				
Tel. No.: 017 773 0055 / 0168				Analysis End Date: 19-Nov-25				
Email: shabanguf@dipaleseng.com								

Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.	Sample No.: WQL25/03473	Sample No.: WQL25/03474	Sample No.: WQL25/03475	Sample No.: WQL25/03477	Sample No.: WQL25/03478
				Sampling Method	Sampling Method	Sampling Method	Sampling Method	Sampling Method
				Sample Name:	Sample Name:	Sample Name:	Sample Name:	Sample Name:
				Note1-1	Note1-1	Note1-1	Note1-1	Note1-1
				Balfour Disaster Management Center	Balfour Stand 116 New House	Balfour Fortuna Water Treatment Plant Final	Balfour Excel Garage	Siyathemba Stand 6311
				Potable	Potable	Potable	Potable	Potable
Turbidity	NTU	≤1 Final ≤5 Distribution	WQL-C-M01	0,128	1,88	0,705	0,597	0,984
pH		≥5 to ≤9.7	WQL-C-M05	7,68	7,69	7,26	7,32	6,79
Alkalinity	mg/L	N/A	WQL-C-M03	52,84	52,79	51,45	52,17	53,40
Conductivity	mS/m	≤170	WQL-C-M04	19,83	19,52	19,76	19,75	20,20
Temperature*	°C	N/A	WQL-C-M05	20,8	20,8	21,3	21,2	21,2
Chloride as Cl	mg/L	≤300	WQL-C-M24	14,78	14,06	13,55	14,25	14,41
Fluoride as F*	mg/L	≤1.5	WQL-C-M24	0,170	0,166	0,178	0,166	0,172
Nitrate as N*	mg/L	≤11	WQL-C-M23	#	#	#	#	#
Free Chlorine as Cl ₂ * mg/L		≤5	WQL-C-M16	<0,02	<0,02	<0,02	<0,02	<0,02
Total Chlorine Cl ₂ * mg/L		N/A	WQL-C-M16	0,03	0,04	0,06	0,04	0,04
Residual Chlorine* mg/L		N/A	WQL-C-M16	0,03	0,04	0,06	0,04	0,04
HPC*	CFU/mL	≤1000	WQL-M-M02	97	204	710	990	410
Total Coliforms*	MPN/100mL	≤10	WQL-M-M03	19	9	43	15	45
E. coli*	MPN/100mL	ND	WQL-M-M03	<1	2	1	<1	1

Report Comment:
Samples received in an acceptable condition.

Sign:.....
Technical Signatory: Chemistry

Sign:.....
Technical Signatory: Chemistry

Sign:.....
Technical Signatory: Microbiology

Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.	Sample No.: WQL25/03479	Sample No.: WQL25/03480	Sample No.: WQL25/03481	Sample No.: WQL25/03482	Sample No.: WQL25/03483
				Sampling Method	Sampling Method	Sampling Method	Sampling Method	Sampling Method
				Sample Name:	Sample Name:	Sample Name:	Sample Name:	Sample Name:
				Note1-1	Note1-1	Note1-1	Note1-1	Note1-1
				Siyathemba Thusong Center	Siyathemba 24 Charls Street	Siyathemba Reservoir	Greylingstad Total Garage	Greylingstad Reservoir
				Potable	Potable	Potable	Potable	Potable
Turbidity	NTU	≤1 Final ≤5 Distribution	WQL-C-M01	4,57	1,17	1,51	0,329	14,4
pH		≥5 to ≤9.7	WQL-C-M05	7,28	7,29	7,11	7,27	7,33
Alkalinity	mg/L	N/A	WQL-C-M03	52,02	52,48	52,19	53,35	52,73
Conductivity	mS/m	≤170	WQL-C-M04	20,01	19,71	19,66	21,02	20,16
Temperature*	°C	N/A	WQL-C-M05	21,1	21,1	21,1	21,1	21,1
Chloride as Cl	mg/L	≤300	WQL-C-M24	14,45	14,54	14,30	15,73	15,43
Fluoride as F*	mg/L	≤1.5	WQL-C-M24	0,198	0,354	0,168	0,175	0,225
Nitrate as N*	mg/L	≤11	WQL-C-M23	#	#	#	#	#
Free Chlorine as Cl ₂ * mg/L		≤5	WQL-C-M16	0,04	<0,02	<0,02	<0,02	0,05
Total Chlorine Cl ₂ * mg/L		N/A	WQL-C-M16	0,05	0,04	0,05	<0,02	0,08
Residual Chlorine* mg/L		N/A	WQL-C-M16	0,01	0,04	0,05	<0,02	0,03
HPC*	CFU/mL	≤1000	WQL-M-M02	188	61	199	305	450
Total Coliforms*	MPN/100mL	≤10	WQL-M-M03	70	1	15	22	>201
E. coli*	MPN/100mL	ND	WQL-M-M03	1	<1	<1	<1	1

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Customer Name: Dipaleseng Local Municipality
Customer Code: LDP
Customer Address: Private bag X1005
Balfour 2410
Attention: Mr. Freddy Shabangu
Tel. No.: 017 773 0055 / 0168
Email: shabanguf@dipaleseng.com

No. Of Samples: 19
Sampling Date: 11-Nov-25
Date Received: 11-Nov-25

Analysis Start Date: 11-Nov-25
Analysis End Date: 19-Nov-25

Sample No.: Sampling Method				WQL25/03484 Note1-1	WQL25/03485 Note1-1	WQL25/03486 Note1-1	WQL25/03487 Note1-1	WQL25/03488 Note1-1
Sample Name:				Nthorwana Municipal Office	Nthorwana Stand 731	Nthorwana Reservoir	Grootvlei - 192 Protea avenue	Grootvlei - Municipal office
Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.	Potable	Potable	Potable	Potable	Potable
Turbidity	NTU	≤1 Final ≤5 Distribution ≥5 to ≤9.7	WQL-C-M01	1,37	1,08	1,15	0,295	1,78
pH			WQL-C-M05	7,45	6,92	7,43	7,55	7,48
Alkalinity	mg/L	N/A	WQL-C-M03	54,78	53,65	52,79	58,28	58,31
Conductivity	mS/m	≤170	WQL-C-M04	20,22	20,41	19,92	21,60	21,62
Temperature*	°C	N/A	WQL-C-M05	21,4	21,4	21,0	20,9	20,9
Chloride as Cl	mg/L	≤300	WQL-C-M24	14,49	14,40	15,10	17,00	16,88
Fluoride as F*	mg/L	≤1.5	WQL-C-M24	0,198	0,261	0,188	0,313	0,195
Nitrate as N*	mg/L	≤11	WQL-C-M23	#	#	#	#	#
Free Chlorine as Cl ₂ * mg/L		≤5	WQL-C-M16	0,03	0,02	<0,02	0,52	0,16
Total Chlorine Cl ₂ * mg/L		N/A	WQL-C-M16	0,05	0,05	0,04	0,80	0,45
Residual Chlorine* mg/L		N/A	WQL-C-M16	0,02	0,03	0,04	0,28	0,29
HPC*	CFU/mL	≤1000	WQL-M-M02	475	625	465	29	1
Total Coliforms* MPN/100mL		≤10	WQL-M-M03	>201	>201	>201	<1	<1
E. coli* MPN/100mL		ND	WQL-M-M03	165	>201	>201	<1	<1

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Technical Signatory: Chemistry

Sign:.....
Technical Signatory: Microbiology

Sample No.: Sampling Method				WQL25/03489 Note1-1	WQL25/03490 Note1-1			
Sample Name:				Grootvlei - Clinic	Grootvlei - Reservoir			
Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.	Potable	Potable			
Turbidity	NTU	≤1 Final ≤5 Distribution ≥5 to ≤9.7	WQL-C-M01	0,363	0,472			
pH			WQL-C-M05	7,54	7,45			
Alkalinity	mg/L	N/A	WQL-C-M03	57,60	56,78			
Conductivity	mS/m	≤170	WQL-C-M04	21,73	21,46			
Temperature*	°C	N/A	WQL-C-M05	21,0	21,4			
Chloride as Cl	mg/L	≤300	WQL-C-M24	17,10	17,30			
Fluoride as F*	mg/L	≤1.5	WQL-C-M24	0,256	0,288			
Nitrate as N*	mg/L	≤11	WQL-C-M23	#	#			
Free Chlorine as Cl ₂ * mg/L		≤5	WQL-C-M16	0,02	1,08			
Total Chlorine Cl ₂ * mg/L		N/A	WQL-C-M16	0,23	1,40			
Residual Chlorine* mg/L		N/A	WQL-C-M16	0,21	0,32			
HPC*	CFU/mL	≤1000	WQL-M-M02	2	1			
Total Coliforms* MPN/100mL		≤10	WQL-M-M03	<1	<1			
E. coli* MPN/100mL		ND	WQL-M-M03	<1	<1			

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No. Of Samples: 19
 Sampling Date: 11-Nov-25
 Date Received: 11-Nov-25

Analysis Start Date: 11-Nov-25
 Analysis End Date: 19-Nov-25

		Sample No.:	WQL25/03476				
		Sampling Method	Note1-1				
		Sample Name:	Balfour Fortuna Water Treatment Plant Raw				
		Sample Type:	Raw				
Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.				
pH			WQL-C-M05	7,15			
Alkalinity	mg/L		WQL-C-M03	53,37			
Conductivity	mS/m		WQL-C-M04	18,76			
Temperature*	°C		WQL-C-M05	21,2			
Chloride as Cl	mg/L		WQL-C-M24	13,05			
Fluoride as F*	mg/L		WQL-C-M24	0,277			
Nitrate as N*	mg/L		WQL-C-M23	#			
Orthophosphate as PO ₄ * mg/L			WQL-C-M21	<0,060			
HPC*	CFU/mL		WQL-M-M02	1600			
Total Coliforms*	MPN/100mL		WQL-M-M03	>2420			
E. coli*	MPN/100mL		WQL-M-M03	291			

Report Comment:

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Sign:.....
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 Technical Signatory: Chemistry

Sign:.....
 Technical Signatory: Microbiology

		Sample No.:	WQL25/03491				
		Sampling Method	Note1-1				
		Sample Name:	Grootvlei Mine - Waste Water Treatment Works (WWTW) Final				
		Sample Type:	Waste				
Determinand	Units	Limits (SANS 241:2015)	Sample Type: Method No.				
pH			WQL-C-M05	7,25			
Alkalinity	mg/L		WQL-C-M03	208,69			
Conductivity	mS/m		WQL-C-M04	62,22			
Temperature*	°C		WQL-C-M05	21,5			
Total Suspended Solids	mg/L		WQL-C-M12	25,6			
Nitrate as N*	mg/L		WQL-C-M23	#			
Orthophosphate as PO ₄ * mg/L			WQL-C-M21	10,20			
Nitrite as N*	mg/L		WQL-C-M28	<0,049			
Chemical Oxygen Demand as O ₂	mg/L		WQL-C-M02	109			
Free Chlorine as Cl ₂ * mg/L			WQL-C-M16	<0,02			
Total Chlorine Cl ₂ * mg/L			WQL-C-M16	<0,02			
Residual Chlorine*	mg/L		WQL-C-M16	<0,02			
Nitrogen Ammonia as N	mg/L		WQL-C-M22	26,74			
Total Coliforms*	MPN/100mL		WQL-M-M03	>2420			
E. coli*	MPN/100mL		WQL-M-M03	>2420			

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 Technical Signatory: Microbiology

Date of Issue

05/12/2025

End Of Report

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